

**OPINIONS AND DECLARATIONS
RENDERED BY THE INTER-
NATIONAL COMMISSION ON
ZOOLOGICAL NOMENCLATURE**

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

Secretary to the Commission

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OPINION 392

Emendation to *Sandbergeroceras* of the generic name
Sandbergeoceras Hyatt, 1844 (Class Cephalopoda, Order
Ammonoidea)



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INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 392

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OPINION 392

EMENDATION TO "SANDBERGEROCERAS" OF THE GENERIC NAME "SANDBERGEOCERAS" HYATT, 1884 (CLASS CEPHALOPODA, ORDER AMMONOIDEA)

RULING :—(1) The spelling of the generic name *Sandbergeoceras* Hyatt, 1884 (Class Cephalopoda, Order Ammonoidea) is hereby emended to *Sandbergeroceras*.

(2) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name No. 984 :—*Sandbergeroceras* (emend. of *Sandbergeoceras*) Hyatt, 1884 (gender : neuter) (type species, by selection by Miller, 1938) : *Goniatites tuberculosocostatus* G. & F. Sandberger, 1850).

(3) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 688 :—*tuberculosocostatus* G. & F. Sandberger, 1850, as published in the combination *Goniatites tuberculosocostatus* (specific name of type species of *Sandbergeroceras* Hyatt, 1884).

(4) The under-mentioned generic name is hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name No. 408 :—*Sandbergeoceras* Hyatt, 1884 (an Invalid Original Spelling for *Sandbergeroceras*).

(5) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name No. 263 :—*sandbergerorum* Miller, 1938, as published in the combination *Sandbergeoceras sandbergerorum* (a junior objective synonym of *tuberculosocostatus* G. & F. Sandberger, 1850, as published in the combination *Goniatites tuberculosocostatus*).

I.—THE STATEMENT OF THE CASE

On 26th May 1952, Dr. A. K. Miller (*State University of Iowa, Department of Geology, Iowa City, Iowa, U.S.A.*) submitted to the Commission the following application setting out the grounds for his belief that the generic name published by Hyatt in 1884 with the spelling *Sandbergeoceras* (Class Cephalopoda, Order Ammonoidea) should be emended to *Sandbergeroceras* and asking the Commission to place this generic name so emended on the *Official List of Generic Names in Zoology* :—

Proposed acceptance of the emendation to “Sandbergeroceras” of the generic name “Sandbergeoceras” Hyatt, 1884 (Class Cephalopoda, Order Ammonoidea); and the establishment of “Goniatites tuberculosocostatus” G. and F. Sandberger, 1850, as its type species

By A. K. MILLER

(*State University of Iowa, Department of Geology,
Iowa City, Iowa, U.S.A.*)

The purpose of the present application is to obtain a ruling from the International Commission on Zoological Nomenclature that the emendation to *Sandbergeroceras* of the generic name *Sandbergeoceras* Hyatt, 1884, is to be accepted as the correct spelling of the generic name; and that the type species is *S. tuberculosocostatum* (G. and F. Sandberger, 1850).

2. In the original publication (*Proc. Boston Soc. nat. Hist.* 22 : 332, 333, 334) the above generic name appears several times and is invariably spelled *Sandbergeoceras*, though it is stated (: 333) to have been “Dedicated to Prof. Guido Sandberger”. It was emended to *Sandbergeroceras* by Crosse and Fischer in 1884 (*J. Conchyliol.* 32 : 415).

3. In view of the explanation of the origin of this name given by Hyatt at the time of its original publication, it seems clear that the emendation to *Sandbergeroceras* is fully in accord with the provisions of Article 19 of the Code (see 1950, *Bull. zool. Nomencl.* 4 : 142, Point (2)(b)(i).

4. When Hyatt established this genus, he referred to it two forms, one of which he designated "Sandb. (Gon.) tuberculosocostatum, sp. Sand. Verst. Nass., pl. 4, fig. 1" (i.e. Sandberger (G.) and Sandberger (F.), 1850, *Die Versteinerungen des rheinischen Schichtensystems in Nassau* : 64—65, pl. 4, fig. 1—1f, pl. 8, figs. 2, 2a). In 1938 I (*Geol. Soc. Amer. Spec. Pap.* 34 : 178) for no apparent reason stated that this form is the type species, and presumably I therefore established it as such. Its nomenclatorial background is unusual. That is, when the Sandberger brothers described it, they thought that the specimens on which in 1842 d'Archiac and de Verneuil had based *Goniatites costatus* and *G. tuberculosus* were conspecific, and peculiarly they therefore combined the two specific names to form a third name "*tuberculosocostatus*", which they ascribed to d'Archiac and de Verneuil. They then figured, on two different plates, two forms which they referred to this "combined species"—one of these (pl. 4, fig. 1) was, as explained above, cited by Hyatt as a representative of "*Sandbergeoceras*", and it is the one that presumably I established as the type species. It does not appear to be referable to either *Goniatites costatus* or *G. tuberculosus*. In 1938 I concluded that "G. and F. Sandberger obviously did not intend to propose a new specific name", for they ascribed their "combined name" to d'Archiac and de Verneuil. I therefore thought that the type species of the genus under consideration was without a valid name, and I coined the name *S. sandbergerorum* for it. Nevertheless, it now seems to me that the Sandberger brothers did establish a new name "*tuberculo-costatum*", or preferably "*tuberculosocostatum*". In any case Hyatt (1884) certainly published this name of which therefore my *sandbergerorum* should fall as a synonym.

5. In view of the fact that, with the present wording of Article 19 of the Code and with the uncertainties that cloud the name of the type species of the genus under consideration, absolute stability can be secured only by means of a ruling by the International Commission on Zoological Nomenclature, I now ask the Commission :—

- (1) to place the name *Sandbergeroceras* (emend. of *Sandbergeoceras*) Hyatt, 1884 (gender : neuter) (type species, by selection by

Miller (1938) : *Goniatites tuberculosocostatus* G. and F. Sandberger, 1850) on the *Official List of Generic Names in Zoology* ;

- (2) to place the trivial name *tuberculosocostatus* G. and F. Sandberger, 1850, as published in the combination *Goniatites tuberculosocostatus* (trivial name of the type species of *Sandbergeroceras* Hyatt, 1884) on the *Official List of Specific Trivial Names in Zoology* ; and
- (3) to place the original spelling *Sandbergeoceras* Hyatt, 1884 on the *Official Index of Rejected and Invalid Generic Names in Zoology*.
- (4) to place the trivial name *sandbergerorum* Miller, 1938 (: 178), as published in the combination *Sandbergeoceras sandbergerorum* (a junior objective synonym of *tuberculosocostatus* G. & F. Sandberger, 1850, as published in the combination *goniatites tuberculosocostatus*) on the *Official Index of Rejected and Invalid Specific Trivial Names in Zoology*.

II.—THE SUBSEQUENT HISTORY OF THE CASE

2. Registration of the present application : Upon the receipt of Dr. Miller's application, the question of emending to *Sandbergeroceras* the spelling of the generic name published by Hyatt in 1884 with the spelling *Sandbergeoceras* was allotted the Registered Number Z.N.(S.) 659.

3. Publication of the present application : The present application was sent to the printer on 4th July 1952 and was published in the *Bulletin of Zoological Nomenclature* on 29th August of the same year (Miller, 1952, *Bull. zool. Nomencl.* 6 : 357—358).

4. No objection received : The publication of the present application elicited no objection to the action proposed from any source.

III.—THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

5. Issue of Voting Paper V.P.(54)56 : On 5th April 1954, a Voting Paper (V.P.(54)56) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal relating to the name *Sandbergeoceras* Hyatt, 1884, as specified in Points (1) to (4) in paragraph 5 on page 358 in volume 6 of the *Bulletin of Zoological Nomenclature*" [i.e. in the Points numbered as above in paragraph 5 of the application reproduced in the first paragraph of the present *Opinion*].

6. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 5th July 1954.

7. Particulars of the Voting on Voting Paper V.P.(54)56 : At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(54)56 was as follows :—

(a) *Affirmative Votes had been given by the following eighteen (18) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Bonnet ; Hering ; Vokes ; Riley ; Esaki ;
Dymond ; Boschma ; Jaczewski ; Lemche ; do Amaral ;
Bradley (J.C.) ; Hemming ; Pearson ; Sylvester-Bradley ;
Cabrera ; Stoll ; Mertens ;

(b) *Negative Votes, one (1) :*

Hankó ;

(c) *Voting Papers not returned :*

None.

8. Declaration of Result of Vote : On 7th July 1954, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(54)56, signed a Certificate that the Votes cast were as set out in paragraph 7 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

9. Preparation of the Ruling given in the present " Opinion " : On 24th February 1956, Mr. Hemming prepared the Ruling given in the present *Opinion* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(54)56.

10. Original References : The following are the original references for the names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Opinion* :—

Sandbergeoceras Hyatt, 1884, *Proc. Boston Soc. nat. Hist.* **22** : 332, 333, 334

Sandbergeroceras Hyatt, 1884. For reference see *Sandbergeoceras*

sandbergerorum, *Sandbergeoceras*, Miller, 1938, *Geol. Soc. Amer. Spec. Pap.* 34 : 178
tuberculosocostatus, *Goniatites*, G. & F. Sandberger, 1850, *Die Versteinerungen rheinisch. Schichtensystems zu Nassau* : 64—65, pl. 4, figs. 1—1f, pl. 8, figs. 2, 2a

11. The following is the reference for the selection of the type species of the genus *Sandbergeroceras* Hyatt, 1884, specified in the Ruling given in the present *Opinion* :—

Miller, 1938, *Geol. Soc. Amer.*, *Spec. Pap.* 34 : 178.

12. **Family-Group-Name Aspects** : The present application was submitted before, under a Directive issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, it became the duty of the Commission, when placing a generic name on the *Official List of Generic Names in Zoology*, to investigate the question whether that generic name had been taken as the base for the name of a family-group taxon. This question is now being examined on a separate File to which the Registered Number Z.N.(S.) 1113 has been allotted.

13. At the time of the submission of the present application the name applicable to the second portion of a binomen was “trivial name”. This was altered to “specific name” by the Fourteenth International Congress of Zoology, Copenhagen, 1953, which at the same time made corresponding changes in the titles of the *Official List* and *Official Index* of names of this category. These changes in terminology have been incorporated in the Ruling given in the present *Opinion*.

14. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Opinion* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

15. The present *Opinion* shall be known as *Opinion Three Hundred and Ninety-Two* (392) of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Fourth day of February, Nineteen Hundred and Fifty-Six.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING